

SKINNER PATENT DRILL CHUCK.**FOR HOLDING STRAIGHT AND TAPER SHANK DRILLS.****Plate 1263.**

This Chuck is simple in construction; the Body is made of the best machinery steel, and the Jaws are hardened tool steel. It has been given the most severe tests to which a Chuck could be subjected, and always with entirely satisfactory results. We claim for this Chuck: Self centering, Self tightening, strongest grip, perfect accuracy, greatest durability.

FOR HOLDING STRAIGHT SHANK DRILLS.

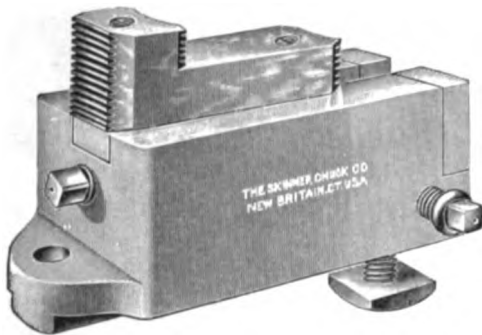
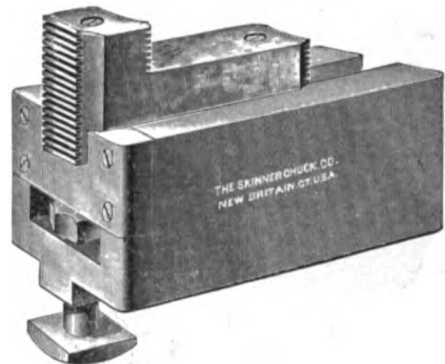
No. 0, Holding Capacity, 0 to $\frac{1}{8}$ inch (for jewelers)	\$ 6 00
No. 1, Holding Capacity, 0 to $\frac{1}{4}$ inch	7 00
No. 2, Holding Capacity, 0 to $\frac{3}{8}$ inch	8 50
No. 3, Holding Capacity, 0 to $\frac{1}{2}$ inch	10 00
No. 4, Holding Capacity, 0 to $\frac{3}{4}$ inch	15 00
No. 5, Holding Capacity, 0 to 1 inch	18 00

FOR HOLDING TAPER SHANK DRILLS.

No. 6, Holding Capacity, $\frac{1}{8}$ to $\frac{5}{8}$ inch	\$10 00
No. 7, Holding Capacity, $\frac{1}{4}$ to $\frac{7}{8}$ inch	15 00
No. 8, Holding Capacity, $\frac{1}{2}$ to 1 $\frac{1}{4}$ inch	18 00

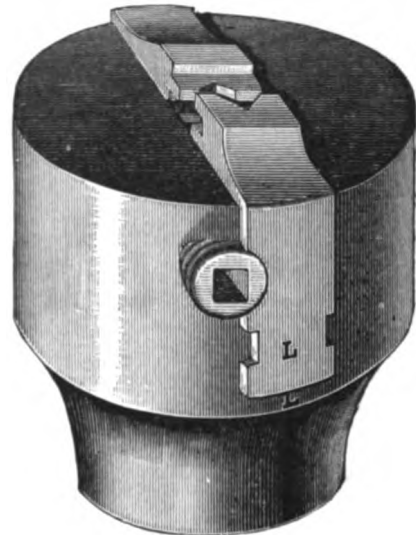
SKINNER REVERSIBLE FACE PLATE JAW.

(PATENTED NOV. 17, 1891, AND NOV. 14, 1893.)

**Plate 1264.****Plate 1265.**

These Jaws are adapted to use on large lathe face plates, boring mill tables and drill presses, and on machines of too great capacity for the use of Chucks. The outer end of the Jaw is clamped to face plate by a common T head bolt, and the inner end by patent device. The nut on bottom of vertical bolt is adjustable, and when set properly a slight turn of the nut on the side of the Jaw near the inner end will clamp the Jaw securely in position. This nut is more accessible, and this arrangement for clamping the inner end of Jaw is preferable to using a common bolt. The rib on the bottom of the Jaw is $1\frac{1}{4}$ inches wide, and can be finished to exactly fit the slot in plate. The screws and movable Jaws are made of open hearth steel, the latter and the nut end of the screw being thoroughly case hardened. The necessary bolts and a steel wrench are furnished with each set of Jaws.

Size, 8 inch	Per Set of Three Jaws, \$45 00; Per Set of Four Jaws, \$ 60 00
Size, 10 inch	Per Set of Three Jaws, 60 00; Per Set of Four Jaws, 80 00
Size, 12 inch	Per Set of Three Jaws, 90 00; Per Set of Four Jaws, 120 00

DRILL CHUCKS.**SKINNER STANDARD DRILL CHUCK.****Plate 1272.**

This Chuck will hold drills from 0 to $\frac{3}{4}$ inch, according to sizes listed below; have hole entirely through them, and are made to fit a taper plug, or can easily be threaded to fit lathe spindle. They are made of the best materials, the jaws and screws being carefully tempered.

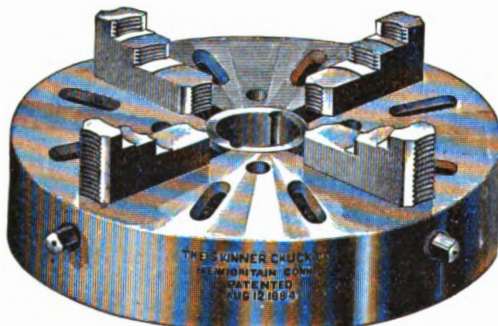
	Diameter	Capacity	Price
No. 000	$1\frac{3}{4}$ inch	0 to $\frac{1}{4}$ inch	\$6 00
No. 100	$2\frac{1}{8}$ inch	0 to $\frac{1}{2}$ inch	7 00
No. 101	$2\frac{7}{8}$ inch	0 to $\frac{3}{4}$ inch	8 00

This Chuck will not injure the drill.

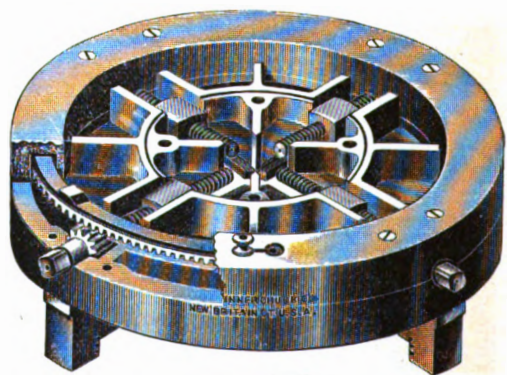
SKINNER NEW MODEL DRILL CHUCK.**Plate 1274.**

By revolving the knurled nut the jaws are moved outward or inward in the converging slots in the chuck body as may be desired. The chuck can be operated by hand, and when a very firm grip is desired it may be obtained by the use of a spanner wrench, one being furnished with each chuck. The chuck may be taken apart readily for cleaning and oiling. A hole the full capacity of the chuck may be drilled through the center without injury to the chuck.

	Capacity	Each
No. 11	0 to $\frac{1}{16}$ inch	\$5 50
No. 12	0 to $\frac{1}{8}$ inch	5 50
No. 13	0 to $\frac{1}{4}$ inch	9 00

THE SKINNER LATHE CHUCKS.**INDEPENDENT CHUCK.****Plate 1277.****JAWS REVERSIBLE.**

Order by these Numbers	Diameter of Chuck Body	Price	Diam. of Hole Through Center	Diam. of Recess for Face Plate
104	4 9-16 in.	\$ 14 00	3/4 in.	2 3/4 in.
106	6 7-16 in.	18 00	1 1/4 in.	4 in.
108	8 in.	22 00	1 1/2 in.	4 in.
110	10 in.	26 00	1 3/4 in.	4 3/4 in.
112	12 3/8 in.	30 00	2 in.	6 in.
114	14 in.	34 00	2 3/8 in.	7 in.
116	16 in.	38 00	2 3/4 in.	7 3/4 in.
118	18 in.	44 00	3 in.	8 in.
120	20 in.	50 00	3 in.	10 in.
122	22 in.	57 00	3 in.	12 in.
124	24 in.	65 00	3 in.	12 in.
126	26 in.	80 00	3 in.	13 in.
128	28 in.	100 00	3 in.	14 in.
130	30 in.	120 00	3 3/4 in.	15 in.
136	36 in.	210 00	3 3/4 in.	18 in.
142	36 in.	240 00	3 3/4 in.	18 in.

COMBINATION CHUCK.**Plate 1278.**

Size Chuck	Price, 3 Jaws	Price, 4 Jaws	Diam. of Chuck Body	Cap. with Common Jaws	Diam. of Face plate Seat	Diam. of Center Hole
3 in.	\$ 18 00		3 5/8 in.	3 5/8 in.	1 15-16 in.	3/4 in.
4 in.	22 00	\$ 26 00	4 7/8 in.	4 7/8 in.	2 3/4 in.	15-16 in.
5 in.	25 00	30 00	6 1/4 in.	5 3/4 in.	3 1/2 in.	1 1/4 in.
6 in.	26 00	32 00	7 in.	6 3/4 in.	3 1/2 in.	1 1/4 in.
8 in.	30 00	38 00	8 3/8 in.	8 3/8 in.	4 1/2 in.	1 1/2 in.
9 in.	34 00	42 00	9 5/8 in.	10 1/4 in.	5 in.	1 1/2 in.
12 in.	44 00	56 00	12 1/2 in.	13 in.	6 3/8 in.	1 5/8 in.
15 in.	52 00	64 00	15 1/4 in.	16 1/4 in.	7 in.	2 in.
18 in.	62 00	75 00	17 in.	19 1/4 in.	8 in.	2 1/2 in.
21 in.	80 00	95 00	20 in.	22 1/2 in.	8 3/4 in.	2 1/2 in.
24 in.	100 00	120 00	21 5/8 in.	25 3/4 in.	10 in.	2 3/4 in.
26 in.	130 00	160 00	26 in.	30 in.	13 in.	3 in.
30 in.	170 00	200 00	30 1/4 in.	33 1/4 in.	15 in.	3 in.
36 in.	230 00	285 00	35 5/8 in.	38 3/4 in.	18 in.	3 in.
42 in.	270 00	325 00		42 1/2 in.	18 in.	3 in.

SKINNER COMBINATION AND UNIVERSAL LATHE CHUCKS.

REVERSIBLE JAW CHUCK.

STYLE J.

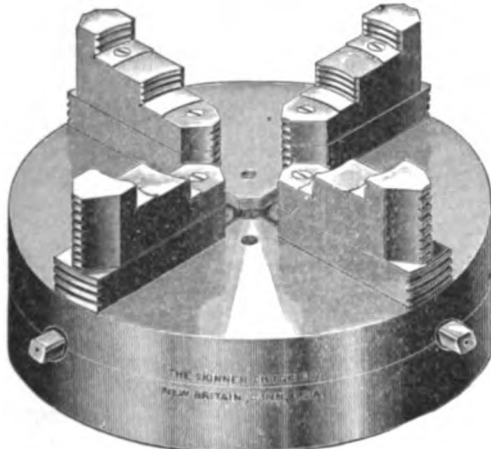


Plate 1279.

THE SKINNER UNIVERSAL CHUCK.

COMMON JAW, STYLE A.

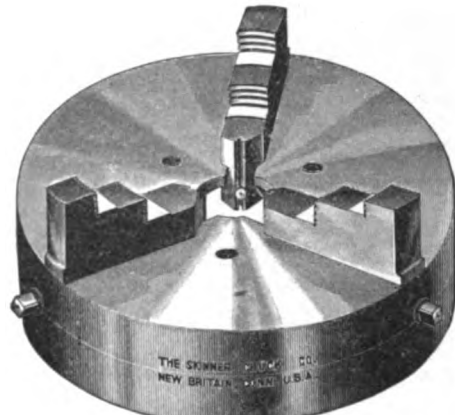


Plate 1280.

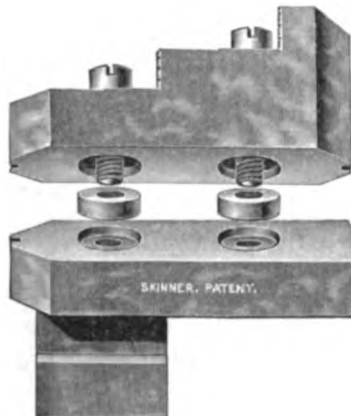


Plate 1281.

This Chuck is made of the very best materials, and in all sizes from 3 inch to 42 inch inclusive. The shell, which consists of two parts, is of the very best grade of cast iron, highly and accurately finished. The jaws are made of steel drop forgings, with solid nuts, thoroughly case hardened, and ground true. The gearing and screws are made of steel which is manufactured especially for this purpose.

We will furnish any kind of style jaws to order.

Size Chuck	Price, 3 Jaws	Price, 4 Jaws	Diameter of Chuck Body	Capacity with Common Jaws	Diameter of Face Plate Seat	*Diameter Cen. Hole
3 inch	\$ 18 00		3 ⁵ / ₈ inch	3 ⁵ / ₈ inch	1 ¹ / ₈ inch	3/ ₄ inch
4 inch	22 00	\$ 26 00	4 ⁷ / ₈ inch	4 ⁷ / ₈ inch	2 ³ / ₄ inch	1 ¹ / ₈ inch
5 inch	25 00	30 00	6 ¹ / ₄ inch	5 ³ / ₄ inch	3 ¹ / ₂ inch	1 ¹ / ₄ inch
6 inch	26 00	32 00	7 inch	6 ³ / ₄ inch	3 ¹ / ₂ inch	1 ¹ / ₄ inch
8 inch	30 00	38 00	8 ³ / ₈ inch	8 ³ / ₈ inch	4 ¹ / ₂ inch	1 ¹ / ₂ inch
9 inch	34 00	42 00	9 ⁵ / ₈ inch	10 ¹ / ₄ inch	5 inch	1 ¹ / ₂ inch
12 inch	44 00	56 00	12 ¹ / ₂ inch	13 inch	6 ³ / ₈ inch	1 ⁵ / ₈ inch
15 inch	52 00	64 00	15 ¹ / ₄ inch	16 ¹ / ₄ inch	7 inch	2 inch
18 inch	62 00	75 00	17 inch	19 ¹ / ₄ inch	8 inch	2 ¹ / ₂ inch
21 inch	80 00	95 00	20 inch	22 ¹ / ₂ inch	8 ³ / ₄ inch	2 ¹ / ₂ inch
24 inch	100 00	120 00	21 ⁵ / ₈ inch	25 ³ / ₄ inch	10 inch	2 ³ / ₄ inch
26 inch	130 00	160 00	26 inch	30 inch	13 inch	3 inch
30 inch	170 00	200 00	30 ¹ / ₄ inch	33 ¹ / ₄ inch	15 inch	3 inch
36 inch	230 00	285 00	35 ⁵ / ₈ inch	38 ³ / ₄ inch	18 inch	3 inch
42 inch	270 00	325 00		42 ¹ / ₂ inch	18 inch	3 inch

*We can make larger center hole in Chucks than sizes given in the table if desired.

SKINNER IMPROVED PLANER CHUCKS.

ADAPTED FOR USE ON PLANERS, SHAPERS, MILLING MACHINES AND UPRIGHT DRILLS.

ROUND SWIVEL BASE.

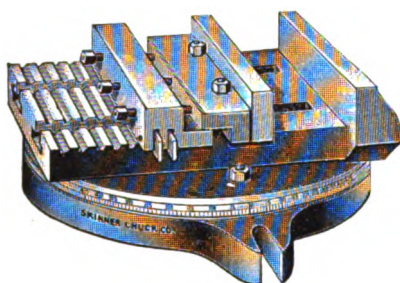


Plate 1282.

SQUARE BASE.

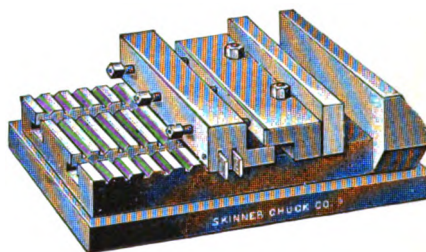


Plate 1283.

These Chucks are heavy and strong, are accurately made of the best materials, and have a greater capacity than any other. Set screws and holding strips are made of crucible steel, and the ends of set screws are hardened. All nuts are thoroughly case-hardened. A strip of tool steel is fitted to the movable jaw to take the thrust of the set screws. A drop forged steel wrench is furnished with each Chuck.

These Chucks will hold either straight or taper work, and can be instantly adjusted from 0 to greatest capacity, no blocking or packing being necessary. The movable jaw will not tip back or raise work from the bed.

A rib $1\frac{1}{8}$ inches wide is cast on the bottom of all Round Base Chucks for fitting to slots in Planer Table. We can arrange the base of these Chucks to attach to a variety of styles and makes of machines as desired. All Round Base Chucks are accurately graduated.

ROUND SWIVEL BASE CHUCK.

Size Chuck, No.	Price	Length of Jaw, Inches	Depth of Jaw, Inches	Jaws will Open, Inches	Space Required, Inches
6	\$ 25 00	7	$1\frac{1}{2}$	$3\frac{1}{2}$	10
8	30 00	9	$1\frac{7}{8}$	5	$12\frac{1}{2}$
10	36 00	11	$2\frac{3}{8}$	6	$14\frac{1}{2}$
12	40 00	13	$2\frac{3}{8}$	8	$16\frac{3}{4}$
15	50 00	$15\frac{1}{2}$	$2\frac{1}{2}$	$9\frac{1}{2}$	20
18	60 00	$18\frac{1}{2}$	$2\frac{3}{4}$	$11\frac{1}{4}$	23
24	90 00	$24\frac{1}{4}$	$2\frac{3}{4}$	16	27
30	120 00	$30\frac{1}{4}$	$2\frac{3}{4}$	$21\frac{1}{2}$	34

SQUARE BASE CHUCK.

Size Chuck, No.	Price	Space Required, Inches
6	\$ 20 00	$7\frac{1}{4} \times 11$
8	25 00	$9 \times 12\frac{1}{2}$
10	30 00	11×15
12	35 00	13×17
15	45 00	$15\frac{1}{2} \times 21$
18	55 00	$18\frac{1}{2} \times 24$
24	75 00	$24\frac{1}{4} \times 28$
30	100 00	$30\frac{1}{4} \times 34$